IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of :

Makoto SUNAGAWA et al. : Mail Stop: PCT

Serial No. 10/550,395 : Attorney Docket No. 2005-1498A

Filed September 22, 2005

NOVEL CARBAPENEM COMPOUNDS [Corresponding to PCT/JP2004/004978

Filed April 6, 2004]

THE COMMISSIONER IS AUTHORIZED TO CHARGE ANY DEFICIENCY IN THE FEE FOR THIS PAPER TO DEPOSIT

ACCOUNT NO. 23-0975.

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Pursuant to the provisions of 37 CFR 1.56, 1.97 and 1.98, Applicants request consideration of the references listed on attached form PTO-1449 and any additional information identified below in paragraph 3. A legible copy of each reference listed on the Form PTO-1449 is enclosed, except a copy is not provided for:

[X]	each U.S. Patent and U.S. Patent application publication;
	each reference previously cited in the international application PCT/; and/or
n	each reference previously cited in prior parent application Serial No.

1a. [X] This Information Disclosure Statement is submitted:

within three months of the filing date (or of entry into the National Stage) of the above-entitled application, or

before the mailing of a first Office Action on the merits or the mailing of a first Office Action after the filing of an RCE,

and thus no certification and/or fee is required.

1b. [] This Information Disclosure Statement is submitted

after the events of above paragraph 1a and prior to the mailing date of a final Office Action or a Notice of Allowance or an action which otherwise closes prosecution in the application, and thus:

- (1) [] the certification of paragraph 2 below is provided, or
- (2) [] the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.
- 1c. [] This Information Disclosure Statement is submitted:

after the mailing date of a final Office Action or Notice of Allowance or action which otherwise closes prosecution in the application, and prior to payment of the issue fee, and thus:

the certification of paragraph 2 below is provided, and

the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.

- 2. It is hereby certified
 - a. [] that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Statement, or
 - b. [] that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in §1.56(c) more than three months prior to the filing of the Statement.

- 3. [] Consideration of the following list of additional information (including any copending or abandoned U.S. application, prior uses and/or sales, etc.) is requested.
- 4. For each non-English language reference listed on the attached form PTO-1449, reference is made to:
 - a. [] a full or partial English language translation submitted herewith,
 - b. [] a foreign patent office search report (in the English language) submitted herewith,
 - c. [X] the concise explanation contained in the specification of the present application at page 3,
 - d. [X] the concise explanation set forth in the attached English language abstract,
 - e. [] the concise explanation set forth below or on a separate sheet attached to the reference:
- 5. [] A foreign patent office search report citing one or more of the references is enclosed.
- 6. [X] Comments:

The US '566 reference cited on the attached PTO-1449 form corresponds to the WO '146 reference cited in Applicants' IDS of September 22, 2005.

Respectfully submitted,

Makoto SUNAGAWA et al.

V / A.F.

Michael R. Davis

Registration No. 25,134 Attorney for Applicants

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December 19, 2005

Sheet 1 of 2		,	INFORMA	TION DISCLO	SURE STATEMENT	r					
FORM PTO 1449 (modified)				ATTY DOCKET NO. SERI		SERIAL 10/550	AL NO. 550,395				
U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE				APPLICANT Makoto SUNAGAWA et al.							
	LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary) Date Submitted to PTO: December 19, 2005				FILING DATE September 22, 2005			GROUP			
			. 	S. PATENT DO				<u> </u>			
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE		NAME	CLASS		SUBCLASS	FILING DATE IF APPROPRIATE		
	AA	5,587,374	12/1996	Perl	poni et al.						
	АВ	5,104,867	4/1992	Kawa	moto et al.	-					
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	AE	5,783,703	7/1998	Hay	ashi et al.						
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	АН	03/089431	10/2003		wo				······································		
	Al	0 538 001	4/1993	E	Europe						
	AJ	0 430 037	6/1991	E	Europe						
	AK					<u> </u>					
	AL					•					
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AM William J. Weiss, et al., "In Vivo Activities of Peptide Prodrugs of Novel Aminomethyl Tetrahydrofuranyl- 1β-Methylcarbapenems", Antimicrobial Agents and Chemotherapy, Vol. 43, No. 3, pages 460-464, March, 1999.											
	AN	L.D. Cama et al., "Total Synthesis of Thienamycin Analogs - III, Synthesis of 2-Aryl and 2-Heteroaryl Analogs of Thienamycin", Tetrahedron, Vol. 39, No. 15, pages 2531-2549, 1983.									
	AO	Ravindra Nath Guthikonda et al., "Structure-Activity Relationships in the 2-Arylcarbapenem Series: Synthesis of 1-Methyl-2-arylcarbapenems", Journal of Medicinal Chemistry, Vol. 30, No. 5, pages 871-880, 1987.									
	AP Jeremy D. Hinks, et al., "Preparation and reactivity of carbapenem-2-stannane", Tetrahedron Letters, Vol. 41, No. 16, pages 2995-2998, 2000.										
EXAMINER					DATE CONSIDERED						

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of form with next communication to applicant.

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Sheet 2 of 2	: _		INFORMA	TION DISCLOSURE STATEMENT					
FORM PTO 1449 (m U.S.		RTMENT OF COMMERC	;E	ATTY DOCKET NO. 2005-1498A	SERIAL 10/550				
PATENT AND TRADEMARK OFFICE LIST OF REFERENCES C'TED BY APPLICANT(S)				APPLICANT Makoto SUNAGAWA et al.					
	(Use seve	eral sheets if necessary) to PTO: December 19,		FILING DATE September 22, 2005		GROUP			
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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE		
	ВА	6,410,525	6/2002	Matsui					
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	BN		·						
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		DOCUMENT NUMBER	DATE	COUNTRY CLASS .		SUBCLASS	TRANSLATION YES NO		
	BQ								
	OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)								
	BR								
EXAMINER DATE CONSIDERED									

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of form with next communication to applicant.